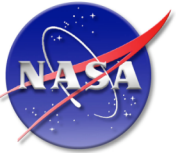




Development of the NASA Science Plan

**NASA Advisory Council
Science Subcommittees
July 7, 2006**

**Greg Williams
Science Mission Directorate**



Congressional Req't for a Science Plan

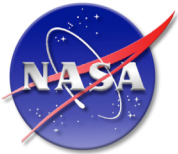
NASA Authorization Act for 2005 (S.1281)

Title I Section 101

(d) SCIENCE.— (1) IN GENERAL.—The Administrator shall develop a plan to guide the science programs of NASA through 2016.

(2) CONTENT.—At a minimum, the plan developed under paragraph (1) shall be designed to ensure that NASA has a rich and vigorous set of science activities, and shall describe— **(A) the missions NASA will initiate, design, develop, launch, or operate in space science and earth science through fiscal year 2016, including launch dates; (B) a priority ranking of all of the missions listed under subparagraph (A), and the rationale for the ranking; and (C) the budget assumptions on which the policy is based, which for fiscal years 2007 and 2008 shall be consistent with the authorizations provided in title II of this Act.**

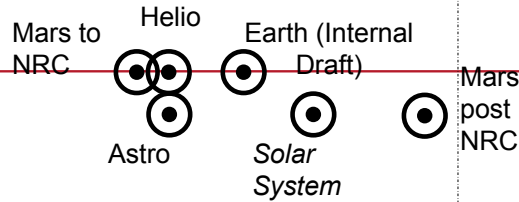
(6) SCHEDULE.—The Administrator shall transmit the plan developed under this subsection to the Committee on Science of the House of Representatives and the Committee on Commerce, Science, and Transportation of the Senate **not later than 1 year after the date of enactment** of this Act.



JAN 06 FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC

**SMD Science
Plan
Schedule
7/7/06**

Roadmaps



SMD Management Review



Draft of Common Elements Sections



4/20



5/31

Roadmap Presentations to Subcommittees



Status / Content Presentation to NAC / SC



Draft of Science Division Sections



5/31

Draft for SC, Subcommittees, NRC, Industry review



6/23

Meeting of SSB ad hoc Review Committee



7/11-13

Comments from NRC, Subcommittees, NSAG, etc.



9/15

Revised Draft for NAC/SC Review



10/6

Final Discussion with NAC / SC



Table top review with PA&E



10/18

Table top review with OMB



10/24

Draft for Agency & OMB clearance



11/1

Deliver to Congress



12/15

*SSB report on
impacts of FY07
request*



**NAC Science
Committee**

2/8-9 HQ

5/17-18 JPL

7/19-20 TBD

10/11-12 GSFC

2/7-8 HQ?

**Science
Subcommittees**

Chairs
telecon -
4/7

5/3-4
Conference

7/6-7
3

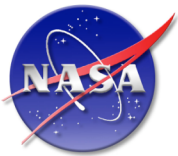
TBS

TBS

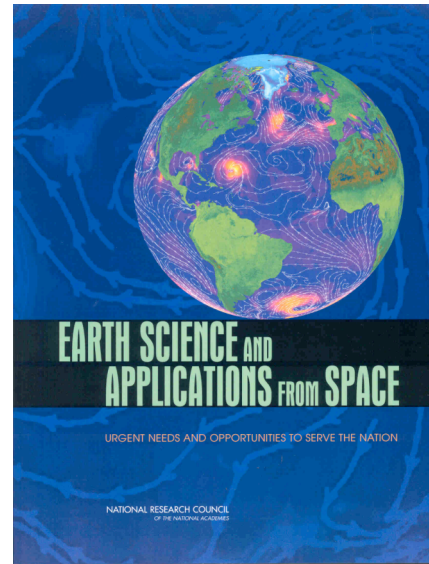
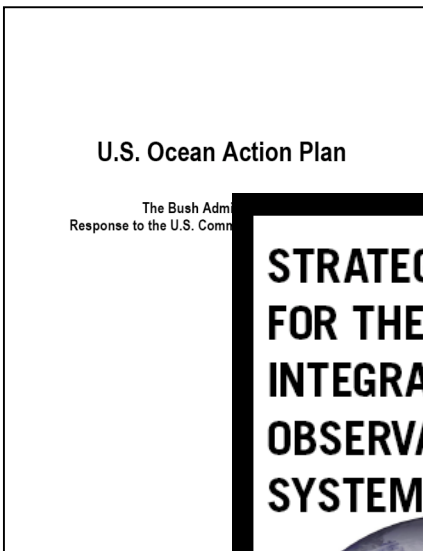
Key

- Roadmap
- SMD Review
- Draft
- Presentation
- Table Top Review
- Meetings
- Delivery

Italics = change from prior version of the schedule



Earth Science



(Interim Report)



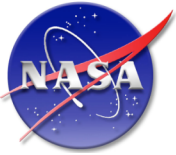
**2006
Science
Plan

Earth
Science
section**



**6 Science
Focus Area
roadmaps; yet
to be
integrated into
a single Earth
Science
roadmap**

2005



Astrophysics Advisors

Board Physics and Astronomy

Burton Richter, *Chair*, Stanford University
Anneila I. Sargent, *Vice Chair*, California Institute of Technology
Elihu Abrahams, Rutgers State University
Jonathan Bagger, Johns Hopkins University
Ronald C. Davidson, Princeton University
Raymond Fonck, University of Wisconsin
Andrea M. Ghez, University of California at Los Angeles
Peter Green, University of Michigan
Laura H. Greene, University of Illinois
Wick Haxton, University of Washington
Frances Hellman, University of California at Berkeley
Erich P. Ippen, Massachusetts Institute of Technology
Marc A. Kastner, Massachusetts Institute of Technology
Christopher F. McKee, University of California at Berkeley
Jose Onuchic, University of California at San Diego
Julia M. Phillips, Sandia National Laboratory
William Phillips, National Institute of Standards and Technology
Thomas N. Theis, IBM T.J. Watson Research Center
C. Megan Urry, Yale University

Space Studies Board

Lennard A. Fisk, *chair*, University of Michigan,
George A. Paulikas, *vice-chair*, The Aerospace Corporation (ret.),
Spiro K. Antiochos, Naval Research Laboratory
Daniel Baker, University of Colorado
Reta F. Beebe, New Mexico State University
Roger D. Blandford, Stanford University
Radford Byerly, Jr., University of Colorado
Judith A. Curry, Georgia Institute of Technology
Jack Farmer, Arizona State University
Jacqueline N. Hewitt, Massachusetts Institute of Technology
Donald Ingber, Harvard Medical School
Ralph H. Jacobson, Charles Stark Draper Laboratory
Tamara E. Jernigan, Lawrence Livermore National Laboratory
Klaus Keil, University of Hawaii
Debra S. Knopman, RAND Corporation
Calvin W. Lowe, Bowie State University
Berrien Moore III, University of New Hampshire
Norman P. Neureiter, American Association for the Advancement of Science
Suzanne Oparil, University of Alabama
Ronald Probstein, Massachusetts Institute of Technology (emeritus),
Dennis W. Readey, Colorado School of Mines
Harvey D. Tananbaum, Harvard-Smithsonian Astrophysical Observatory
Richard H. Truly, National Renewable Energy Laboratory (ret.),
J. Craig Wheeler, University of Texas
Thomas Young, Lockheed Martin Corporation (ret.)
Gary P. Zank, University of California, Riverside

Committee on Astronomy and Astrophysics

Roger D. Blandford, *Co-Chair*, Stanford University
C. Megan Urry, *Co-Chair*, Yale University
Donald Backer, University of California at Berkeley
Mitchell Begelman, University of Colorado
Charles Bennett, Johns Hopkins University
Thomas Bogdan, National Center for Atmospheric Research
Adam Burrows, University of Arizona
Alexei Filippenko, University of California at Berkeley
Timothy M. Heckman, Johns Hopkins University
Lynne Hillenbrand, California Institute of Technology
Stephan Meyer, University of Chicago
Eve Ostriker, University of Maryland
Mark J. Reid, Harvard-Smithsonian Center for Astrophysics
Scott Tremaine, Princeton University
Jean L. Turner, University of California at Los Angeles

AAAC

Garth D. Illingworth, *Chair*, University of California Santa Cruz
John Carlstrom, *Vice-Chair*, University of Chicago
Neta Bahcall, Princeton University
Bruce Carney, University of North Carolina at Chapel Hill
Wendy Freedman, Carnegie Observatories
Katherine Freese, University of Michigan
Robert P. Kirshner, Harvard-Smithsonian Center for Astrophysics
Daniel Lester, University of Texas at Austin
Angela V. Olinto, University of Chicago
Rene A. Ong, University of California at Los Angeles
E. Sterl Phinney, California Institute of Technology
Catherine A. Pilachowsky, Indiana University
Abhijit Saha, National Optical Astronomy Observatories

NAC Science Committee

Charles Kennel, *chair*, Scripps Institute
Wes Huntress, Carnegie Inst. Of Washington
Mark Robinson, Northwestern University
Eugene Levy, Rice Univ.
Neil Tyson, Hayden Planetarium
Brad Jolliff, Washington Univ., St. Louis
Len Fisk, *ex-officio*, University of Michigan

Astrophysics Subcommittee

David Spergel, *chair*, Princeton University
Michael Brown, Caltech
Michael Cherry, Louisiana State University
Neil Cornish, Montana State University
Robert Clayton, University of Chicago
Brenda Dingus, LANL
Alan Dressler, OCW
Debra Fischer, San Francisco State University
Kathryn Flanagan, MIT
Lucy Fortson, Adler Planetarium
Tom Greene, NASA Ames Research Center
Heidi Hammel, Space Science Institute
Craig Hogan, University of Washington
Robert Kennicutt, Cambridge University
Fred Lo, NRAO
John Mather, NASA GSFC
Christopher McKee, UC at Berkeley
Belinda Wilkes, Harvard-Smithsonian Center for Astrophysics

Other groups unique names only:
 Universe Working Group (16)
 Decadal "rolling review team" (~10)

Blue font indicates AAS membership (~85 total)
 More than 120 individuals involved in the process